

Date: Thu, 15 Sep 94 04:30:31 PDT  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #274  
To: Ham-Homebrew

Ham-Homebrew Digest                      Thu, 15 Sep 94                      Volume 94 : Issue    274

Today's Topics:

                    10 Meter Beacons  
            [Q] Suggestions for remote powerdown?  
            CW keys for portable operation (3 msgs)  
            Difference between 3SK73GR and 3SK73Y  
                    Dipoles & 50 ohm coax  
            Enclosures For Xmitters & Amps  
                    Ham-Homebrew Digest V94 #270  
                    How to Breadboard  
                    MAKE.MONEY.FAST  
            Milliwatt Reprints Soon  
            More on Receivers that Radiate  
                    PC Keyboards output???  
            Rebuilding a satellite receiver  
                    SWR meter suggestions?  
            Wanted: RF Transistor 2SC1947

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Sat, 10 Sep 94 20:04:00 -0500  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!iat.holonet.net!capefear!  
Stanley.Outlaw@network.ucsd.edu  
Subject: 10 Meter Beacons  
To: ham-homebrew@ucsd.edu

I run a beacon on ten meters (KC4DPC/B 28.210 MHz) and would like to receive  
reports on this beacon if you hear it. I also am trying to keep an up to date

10 meter beacon list for distribution. So if you would send reports on any 10 meter beacon that you hear it sure would help the cause.

Thanks,

Stanley Outlaw / KC4DPC

Compuserve 72634,276

Fidonet 1:3628/7

INTERNET:Stanley.Outlaw@Capefear.com

73,

Stanley

\* Evaluation copy of Silver Xpress. Day # 25

--- via Silver Xpress V4.01 [NR]

-----  
Date: 14 Sep 1994 21:37:44 GMT

From: newsgw.mentorg.com!wv.mentorg.com!philip@uunet.uu.net

Subject: [Q] Suggestions for remote powerdown?

To: ham-homebrew@ucsd.edu

In article <1994Sep9.230130.24018@jarvis.cs.toronto.edu>,

ruhtra@turing.toronto.edu (Arthur Tateishi) writes:

|> OK, here's the situation:

|> I have a 486 running Linux, zyxel modem, etc.

|> I like to have my machine up all the time for my answering machine  
|> software, dialin access, etc.

|> I'm somewhere else and I know there's a lightning storm heading  
|> towards my computer.

|>

|> What I'd like to be able to do:

|> Switch off my machine remotely by having the computer cut power to its  
|> own power bar via a serial port or some other digital signal from my  
|> computer (ie after killing processes and syncing filesystems).

|>

|> The software side is trivial. Just have my voice/fax software run a  
|> script on some command. When the system halts or power goes down, the  
|> phone line will automatically go back on hook. And no, my machine is  
|> not a sentient lifeform! :-)

|>

|> Gravy:

|> It would be nice to be able to specify a time duration after which the  
|> system will automatically revive itself. This is not critical and I  
|> figure I can work this out myself.

|>

|> QUESTION(S):

|> Has someone built such a device?

|> What sorts of relays/switches could I consider using?

|> Would the bouncing of (say) relay contacts pose their own problems like  
|> spikes to the computer?  
|> Perhaps it's safer(regulation-wise) and simpler to just have a  
|> mechanical device with solenoids sit on top of the powerbar's rocker  
|> switch? It just doesn't seem elegant.  
|> What about other lightning-safe concerns?

I'm not absolutely certain exactly what you are asking ... but, here  
are some answers anyway :-)

There is no difference in contact bounce and spikes in switching with  
a relay, or with the cheap nasty switches that PC manufacturers use.

How to control the relay ? well, you would have to give up a serial port,  
but just open the port, and use the DTR line to signal the switch box.

The switch box can be something as simple as a 555 timer, driving a  
(medium) power transistor, driving the supply relay. Kick the timer  
with DTR line, and relay goes off for a pre-determined time.

How much do you want to spend ??

Some discharge tubes connected across the supply line and telephone line,  
coupled with a cheapo UPS will probably give you all the protection that you  
need, for a couple of hundred dollars (and no interruptions of service).

Philip

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Date: 11 Sep 1994 15:18:10 GMT  
From: ihnp4.ucsd.edu!news.cerf.net!nntp-server.caltech.edu!netline-  
fddi.jpl.nasa.gov!elroy.jpl.nasa.gov!sdd.hp.com!svc.portal.com!shell.portal.com!  
lindy@network.ucsd.edu  
Subject: CW keys for portable operation  
To: ham-homebrew@ucsd.edu

In article <779248620snz@arkas.demon.co.uk>,  
Michael J Dower <Michael@arkas.demon.co.uk> wrote:

>The other alternative is a  
>small dual paddle unit -the Bencher paddles are good in shacks but are too  
>heavy and too nice to put in a rucksack, I think.  
>

The heavy part of the Benchers is the base. You could remove the working  
parts, and mount them on a piece of circuit board or something else lightweight  
that you could strap to your leg.

73 de AK5N

--

Lindy Sisk    lindy@shell.portal.com  
The Internet Crocodile  
Eater of Souls  
"In CyberSpace, no one can hear you scream." (SM)

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Date: 11 Sep 1994 00:10:29 -0700  
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!sundog.tiac.net!  
news.sprintlink.net!news.world.net!news.teleport.com!news.teleport.com!not-for-  
mail@ames.arpa  
Subject: CW keys for portable operation  
To: ham-homebrew@ucsd.edu

Michael J Dower (Michael@arkas.demon.co.uk) wrote:  
: Does anyone one know of manufacturers / retailers that sell small,  
: lightweight keys / paddles that would be useful in my desired application?

How about a reed relay taped to the inside surface of the top of the cabinet? Then tape a magnet to your finger or put a magnet inside your glove and tap away. Might be just the thing on really small rigs for backpacking, no wires, no connectors, contacts protected from the elements. I haven't tried it yet though.

Might implement a keyer paddle in a similar way with reed switches on two sides of a reasonably thin box, and magnets on thumb and forefinger.

If we really got carried away, could implement things like band switches and power level selection with reed relays also. Put a small piece of steel near these reed relays so any magnet placed over it will stick in place.

jerryg            KE7ER            Portland, Oregon    USA

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Date: Mon, 12 Sep 94 13:28:14 GMT  
From: ihnp4.ucsd.edu!munnnari.oz.au!sgiblab!uhog.mit.edu!news.kei.com!ub!  
galileo.cc.rochester.edu!uhura.cc.rochester.edu!rdewan@network.ucsd.edu  
Subject: CW keys for portable operation  
To: ham-homebrew@ucsd.edu

In article <779248620snz@arkas.demon.co.uk> Michael@arkas.demon.co.uk writes:  
>OK - I'm not homebrewing a key, but I am looking to homebrew a "low parts count"

>portable transceiver. I wish to use cw, but am not interested in dragging the  
>MK2 8 Amp key around with me on portable ops!

>

>I've seen small keys on military gear ... but not at all in the surplus vendors  
>that I have access to. (I think they get snapped up at a lightning-like rate  
>once they appear in the surplus store!) I know of a good key that is part of  
>the AN-PRC/VRC 47 set kit -it has a clip that allows the operator to sit down  
>and fasten the key to his/her leg. It's slightly heavier than I would want  
>(so's the 47 set!) and a smaller key would be good. The other alternative is a  
>small dual paddle unit -the Bencher paddles are good in shacks but are too  
>heavy and too nice to put in a rucksack, I think.

>

>Does anyone one know of manufacturers / retailers that sell small, lightweight  
>keys / paddles that would be useful in my desired application?

>

>Replies ok either here (rec.radio.amateur.homebrew) or email to  
>michael@arkas.demon.co.uk

>

I used a j45 (war surplus), a leg clamp with a j38 straight key  
mounted on it for a while. It is quite light and a pleasure to use.  
Fair Radio Sales of Lima, Ohio has them for \$30 a piece.

Lately, I replaced the j38 on the leg clamp with a small aluminum  
box abt 1"x1 1/2" x 2 1/2" containing the cmos super keyer ii (see  
arrl hand book for a description) and a tiny set of iambic paddles  
called the Einbau Wabblers. The paddles are hand made by a master  
machinist in Germany and imported into US by Electro Switch of  
Atlanta, Georgia. You can also order them from Ham Radio Outlet  
in Atlanta. HRO obtains them from Vern (the owner of electros witch).  
In any case, this combination works extremely well for mobile operation.  
I have it clamped on my thigh where the hand rests naturally. It  
is also close to the gear shift lever!

Rajiv  
aa9ch/2

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Date: Wed, 14 Sep 1994 08:09:29 GMT  
From: sinetnews!niq0!nfeed.gw.nagoya-u.ac.jp!news.nca5.ad.jp!kudpc!akiu!sakunami!  
gatortia!wapiko!jif7pbw!yumyum!jif7wex@rsch.wisc.edu  
Subject: Difference between 3SK73GR and 3SK73Y  
To: ham-homebrew@ucsd.edu

In article <hpaik.94.2E75E8D7@silver.sdsmt.edu> hpaik@silver.sdsmt.edu (H. Paik)  
writes:

Can any one tell me the difference between 3SKGR and 3SK73Y ?

I think one has higher gm than the other, but I have no idea.

Y/GR suffix indicates IDSS for FET (and hFE for bipolar Tr).

(Y is 3-7 mA, GR is 6-14 mA for 3SK73)

Toshiba adds R/O/Y/GR/BL suffix for such ranking.

--

Ryuji Suzuki JF7WEX

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Date: Wed, 14 Sep 1994 14:52:05 GMT

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!usc!elroy.jpl.nasa.gov!lll-winken.llnl.gov!fnnews.fnal.gov!gw1.att.com!nntpa!not-for-mail@network.ucsd.edu

Subject: Dipoles & 50 ohm coax

To: ham-homebrew@ucsd.edu

Greg Dolkas (greg@core.rose.hp.com) wrote:

: All this talk about matching 75 ohms to a typical ham transceiver reminds me of  
: a question I had... BTW, most I have asked this suggest I just try it and see  
: what happens :-)

: Your thoughts?

: Greg KD6KGW

Greg: I have 3 dipoles ( 20,17,15 meters) which are fed with a single coax: RG59 75 ohms. The swr in the cw portions of 15 and 20 is low (less than 1.2:1 at the low end of the bands) and I can use the 20 meter dipole for cw and rtty without a tuner. The swr indicator in my TS440 reads low swr and the rig puts out 100 watts. These dipoles do quite well on the air. Since they work well, I haven't lost any sleep about the accuracy of my 50 ohm swr bridge.

Shel WA2UBK

-----  
Date: 13 Sep 94 23:33:00 -0500

From: blkcat!not-for-mail@uunet.uu.net

Subject: Enclosures For Xmitters & Amps

To: ham-homebrew@ucsd.edu

Stephen, I saw your note on a local bbs about the extruded cases and the soon to be 2m ppl exciter. If you have these goodies printed up in a catalog

or advertisement letter I would love to get one.

Thanks! Tim WC1f

Fr. Timothy Cadigan, SJ

Jesuit Community

Georgetown University

Wash. DC 20057

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Fidonet: Timothy Cadigan 1:109/239

Internet: Timothy.Cadigan@f239.n109.z1.fidonet.org

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Date: 13 Sep 1994 20:36:29 GMT

From: ihnp4.ucsd.edu!newshub.sdsu.edu!nic-nac.CSU.net!usc!howland.reston.ans.net!

swiss.ans.net!solaris.cc.vt.edu!news.duke.edu!convex!camelot.dsccc.com!

spd.dsccc.com!spd!jmccarty@network.UCSD

Subject: Ham-Homebrew Digest V94 #270

To: ham-homebrew@ucsd.edu

In article <9408127794.AA779402328@smtpsend.comsys.rockwell.com>,

<Dale\_Croft@comsys.rockwell.COM> wrote:

)

)Subject: Freq. Counter Problem

)ref ham-homebrew digest v94-\*270

[stuff deleted about freq. counter not able to count local oscillator  
from 3.3 to 5.6 MHz through a 1 uF capacitor, but ok on freq's above  
this]

I doubt that. At 3 MHz the reactance of a 1 uF capacitor is 0.05 Ohms.

Mike

----

char \*p="char \*p=%c%s%c;main(){printf(p,34,p,34);}";main(){printf(p,34,p,34);};

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Date: 14 Sep 1994 20:09:04 GMT

From: gatekeeper.us.oracle.com!dcsun4.us.oracle.com!dmarsh@uunet.uu.net

Subject: How to Breadboard

To: ham-homebrew@ucsd.edu

Doug :~}

-----		
. Douglas E. Marsh		Oracle Consulting .
. (513) 629-2229 V-Mail		312 Elm Street .
. (513) 651-4444 Office	Your Message Here	Suite 1525 .

. (513) 651-4463 Fax		Cincinnati, OH 45202	.
.		.	.
. InterNet Address	.-----.	Amateur Radio Call Sign.	.
. dmaish@us.oracle.com	Too much is never enough.	N8TUT	.

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Date: 11 Sep 1994 02:15:19 GMT  
 From: agate!usenet.ins.cwru.edu!po.cwru.edu!sct@ames.arpa  
 Subject: MAKE.MONEY.FAST  
 To: ham-homebrew@ucsd.edu

Somewhere on the net, it's always September...

This "MAKE.MONEY.FAST" scam is a pyramid scheme and may well violate various mail fraud statutes. They are prohibited by virtually all the regional nets and local sites on the Internet. It is a BAD idea to post it to the net -- you're being totally clueless if you think it's (1) not illegal, (2) not forbidden by your site, and (3) not already infamous on the net.

Stephen

--

Stephen Trier	"Even if I wanted to practice my horn, it's at
sct@po.cwru.edu	the bottom of the bathroom."
KG8IH	- Dan Alt, hornist, during the Cleveland
	Youth Wind Symphony European tour 1994

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Date: 13 Sep 94 23:53:00 -0500  
 From: blkcat!not-for-mail@uunet.uu.net  
 Subject: Milliwatt Reprints Soon  
 To: ham-homebrew@ucsd.edu

Saw your msg on the Frequency Forum BBS, I would love to get my hands on a set of back issues of the Milliwatt. Put me down for one! Thanks for the effort of making these available.

731 WC1F  
 Fr. Tim Cadigan, SJ  
 Jesuit Community  
 Georgetown University  
 Wash, DC 20057

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Fidonet: Timothy Cadigan 1:109/239



Internet: Timothy.Cadigan@f239.n109.z1.fidonet.org

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Date: Wed, 14 Sep 1994 06:55:42 GMT  
From: (null)@oddjob.uchicago.edu@network.ucsd.edu  
Subject: More on Receivers that Radiate  
To: ham-homebrew@ucsd.edu

Well I would like to read some of these books you've been quoting from (I have spycatcher) but not the rest. How about posting list with aauthors, publishers and ISBN numbers too.

oddjob@cix.compulink.co.uk

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Date: Wed, 14 Sep 1994 04:09:02 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!  
vixen.cso.uiuc.edu!newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!osuunx.ucc.okstate.edu!  
marcuss@network.ucsd.edu  
Subject: PC Keyboards output???  
To: ham-homebrew@ucsd.edu

~

Hello!

Does anyone know the standard output data format used by the common PC keyboard?? I want to connect a PC keyboard to my 68000 project, but I don't know much about the keyboards. I assume it's asynchronous, but don't know anything else about it!

I am very gratefull to anyone that can provide me with this info! :)  
Thankyou,  
Marcus S. Sutliff

--  
\*\*> marcuss@osuunx.ucc.okstate.edu <\*\*  
\*\*> Oklahoma State University Electronics Engineering Technology <\*\*  
\*\*> Member of IEEE Amateur Radio Call Sign <\*\*  
\*\*> NRA Life Member N5WRH <\*\*

-----  
Date: 14 Sep 1994 13:56:50 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!EU.net!sunic!  
trane.uninett.no!due.uninett.no!marton.hsr.no!leikvoll@network.ucsd.edu  
Subject: Rebuilding a satellite receiver  
To: ham-homebrew@ucsd.edu

Is there someone here who has got equipment to rebuild a satellite tuner to cover the band up to 2Ghz (input). The receiver can now go up to about 1.65, and a second switchable band would be great. I'm willing to pay someone to do this, as I want to do this on several receivers. I don't want a downconverter, just another (or alterable) oscillator. I think the current oscillator runs on 480Mhz.

-Morten Leikvoll / leikvoll@hsr.no (Is it short enough?)

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Date: 14 Sep 1994 13:01:42 +0100  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!EU.net!uknet!acorn!not-for-mail@network.ucsd.edu  
Subject: SWR meter suggestions?  
To: ham-homebrew@ucsd.edu

In article <34qf9e\$12q@usenet.INS.CWRU.Edu>,  
Guy Derosé <gxd@po.CWRU.Edu> wrote:

>

>Hello,  
>I am still very new to amateur radio, but I really like to build  
>circuits. Does anyone have a schematic for a home-built SWR meter  
>for 2M? I haven't had any success finding one in any of the ARRL  
>publications I've been able to find.

The RSGB's VHF handbook has a number of designs in it for VHF and UHF :  
you can get that from the ARRL, who seem to agree it's a useful publication.

-adrian

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Date: Tue, 13 Sep 1994 21:51:40 GMT  
From: psinntp!arrl.org!zlau@uunet.uu.net  
Subject: Wanted: RF Transistor 2SC1947  
To: ham-homebrew@ucsd.edu

Bob Johnson WB4JCM

UF IFAS CLIMATOLOGY LABORATORY (climatol@gnv.ifas.ufl.edu) wrote:  
: I need a 2SC1947, which according to my cross-ref is equivalent to an  
: ECG 341 (or NTE 341). This is a 4-watt rf power transistor that has  
: an oddball lead arrangement and the emitter tied to the case. This  
: makes it very difficult to substitute a more common transistor.

Actually, the MRF 237 is similar and sort of common (pair of them used  
in Heathkit HW-9s). It might work (if it doesn't oscillate)

RF Parts 1-800-737-2787 has them in their catalog.

--

Zack Lau    KH6CP/1                    2 way QRP WAS  
                                         8 States on 10 GHz  
Internet: zlau@arrl.org    10 grids on 2304 MHz

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Date: 11 Sep 1994 16:14:52 GMT  
From: olivea!inews.intel.com!ilx018.iil.intel.com!ilx049.iil.intel.com!  
dbraun@ames.arpa  
To: ham-homebrew@ucsd.edu

References <33vas4INN11j4@ilx018.iil.intel.com>, <33vjnq\$6i7@chnews.intel.com>,  
<778726482snx@djwhome.demon.co.uk>, ù  
Reply-To : dbraun@iil.intel.com  
Subject : Re: DSP on a SoundBlaster (was: FFTMORSE)

In article <778726482snx@djwhome.demon.co.uk>, david@djwhome.demon.co.uk (David Woolley) writes:

|> No. The problem is that the 8 bit SB cards cannot do simultaneous input  
|> and output. By not being able to do real time processing, I meant that  
|> you could read a signal in, process it and output it, but couldn't  
|> output it as you were reading in.

-----

Date: (null)  
From: (null)  
Perhaps the SB16 is more flexible? Has anyone seen specs for programming  
the SB16? I've only seen specs for the 8-bit cards.

-----

Doug Braun            Intel Israel, Ltd.            M/S: IDC-42 (new mailstop!)  
                                         Tel: 011-972-4-655069            dbraun@inside.intel.com

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End of Ham-Homebrew Digest V94 #274

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